MASTER LED tube T8 UltraEfficient with Recycled Plastic

MAS LEDtube 1200mm UE 11.9W 840 T8 EELA

MASTER, LEDtube, T8, EM/Mains, 1200 mm, 220-240 V, 11.9 W, 36W TL-D, 4000 K, 2500 lm, 100000 hour(s)

MASTER, LEDtube, T8, EM/Mains, 1200 mm, 220-240 V, 11.9 W, LED alternative to 36W TL-D, 4000 K, 2500 lm, 100000 hour(s), 210 lm/W, G13 Rotatable end-cap, Beam angle 160 degree(s), Plastic, 40 %, RG0

Product data

General Information	
Cap-Base	G13 Rotatable end-cap
Nominal lifetime	100,000 hour(s)
Switching Cycle	200,000
Lighting Technology	LEDtube

Light Technical	
Color Code	840 [CCT of 4000K]
Beam Angle (Nom)	160 degree(s)
Luminous Flux	2,500 lm
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	210 lm/W
Color Consistency	<6
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %
Photobiological safety according to EN 62471	RG0

Operating and Electrical	
Input Frequency	50 to 60 Hz
Power Consumption	11.9 W
Lamp Current (Max)	63 mA
Lamp Current (Min)	48 mA
Wattage Equivalent	36 W
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (Nom)	220-240 V
LED alternative to fluorescent lamp power	36W TL-D

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Ballast Compatibility	EM/Mains

Temperature

T-Case Maximum (Nom)	40 °C

Controls and Dimming

Dimmable	No

Mechanical and Housing

Bulb Finish	Frosted
Bulb Material	Plastic
Product Length	1,200 mm
Bulb Shape	T8
Net Weight (Piece)	0.230 kg

Approval and Application

Energy Saving Product	Yes
Approval Marks	RoHS compliance CE marking KEMA Keur certificate ENEC certificate
CE mark	Yes
EU RoHS compliant	Yes
LED Innovations	UltraEfficient
Ambient temperature range	-20 to +45 °C

Post-consumer recycled plastic material ratio	40 %

Application Conditions

Wireless Technology	Not applicable

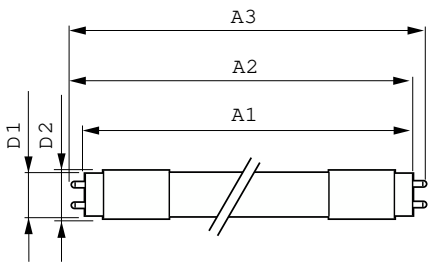
Sustainability Data

Product non-virgin material ratio	26.4 %

Product Data

Order product name	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA
Full product name	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA
Full product code	872016928170700
Order code	929003482208
Material Nr. (12NC)	929003482208
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8720169281707
Numerator - Packs per outer box	10
EAN/UPC - Case	8720169281714

Dimensional drawing



D1	D2	A1	A2	A3
25.8mm	28mm	1198.2mm	1205.3mm	1212.4mm

Product	D1	D2	A1	A2	A3
MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm

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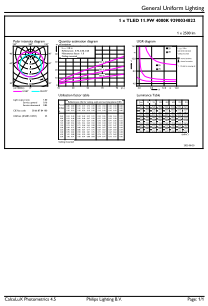
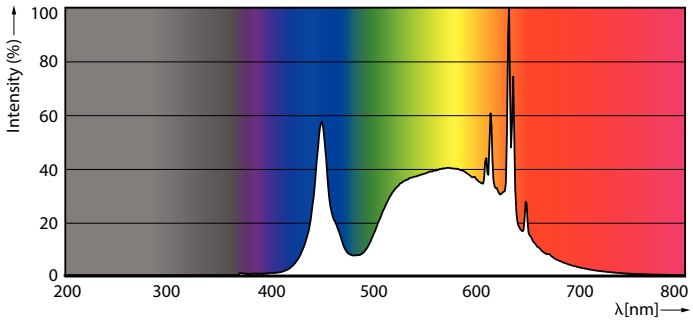
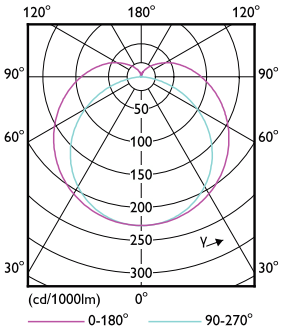
Photometric data



General uniform lighting - MAS LEDtube 1200mm UE 11.9W 840 T8 EELA

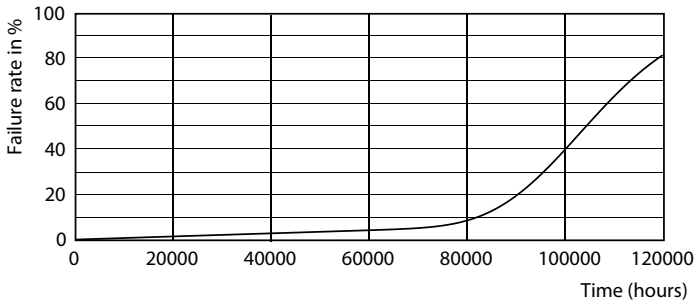


Spectral Power Distribution Colour - MAS LEDtube 1200mm UE 11.9W 840 T8 EELA

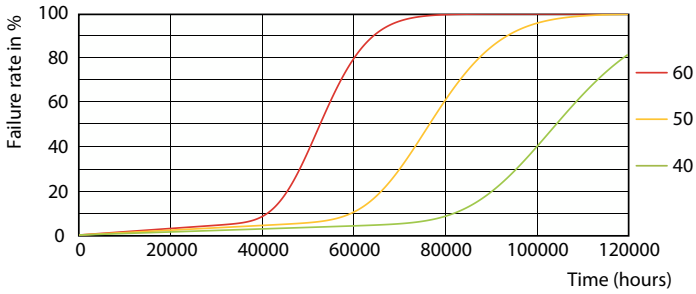


Light Distribution Diagram - MAS LEDtube 1200mm UE 11.9W 840 T8 EELA

Lifetime



Life Expectancy Diagram



LEDtube_100K_4060_FailureRate-LED

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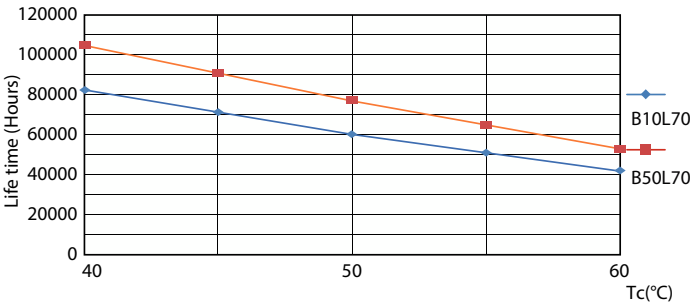
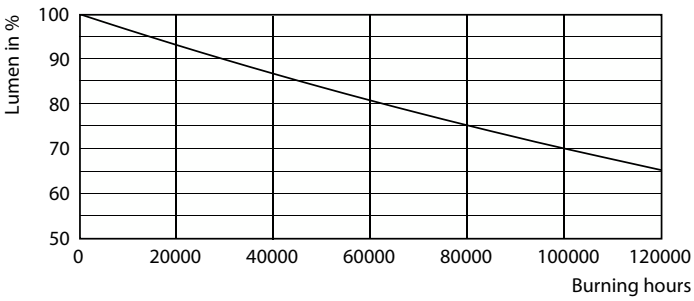
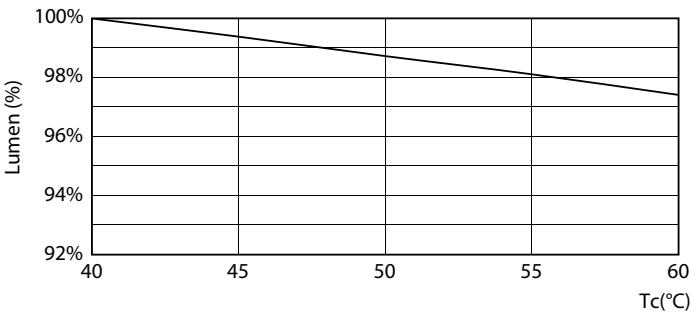
Lifetime



LifetimeVsTc



Lumen Maintenance Diagram - MAS LEDtube 1200mm UE 11.9W 840 T8 EELA



Lumen Maintenance Diagram - MAS LEDtube 1200mm UE 11.9W 840 T8 EELA

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